Journal of Nuclear Materials 166 (1989) 391–392
North-Holland, Amsterdam

AUTHOR INDEX

Abe, F., T. Noda, H. Araki, M. Narui and H. Kayano, Irradiation hardening and ductility loss of a low-activation 9Cr–1V ferritic steel at low temperatures 166 (1989) 265
Adams, J.B. and W.G. Wolfer, Formation energies of helium–void complexes in nickel 166 (1989) 235
Apostolidis, C., see Bokelund 166 (1989) 181
Araki, H., see Abe 166 (1989) 265

Beauvy, M. and J. Larroque, Synthesis, characterization and properties of actinide compounds 166 (1989) 83
Benedict, U., S. Dabos-Seignon, C. Dufour, H. Luo and S. Heathman, Transuranium materials under extreme pressures 166 (1989) 48
Bernard, H., Advanced fuel fabrication 166 (1989) 105
Blank, H., K. Richter, M. Coquerelle, Hj. Matzke, M. Campana, C. Sari and I.L.F. Ray, Dense fuels in Europe 166 (1989) 95
Blank, H., see Matzke 166 (1989) 120
Blank, H., see Matzke 166 (1989) 165
Bogé, M., D. Bonnisseau, P. Burlet, J.M. Fournier, E. Pleska, S. Quézel, J. Rebizant, J. Rossat-Mignod, J.C. Spirlet and M. Wulff, Magnetic and electrical properties of $NpRu_2Si_2$ 166 (1989) 77
Bokelund, H., C. Apostolidis and J.-P. Glatz, Recovery and chemical purification of actinides at JRC, Karlsruhe 166 (1989) 181
Bonnisseau, D., see Bogé 166 (1989) 77
Buijs, K., B. Chavane de Dalmassy and S. Pickering, The dispersion of radioactive aerosols in fires 166 (1989) 199
Burlet, P., see Rossat-Mignod 166 (1989) 56
Burlet, P., see Bogé 166 (1989) 77

Campana, M., see Blank 166 (1989) 95
Caron-Charles, M. and B. Gilot, Purification de l'hydrogène sous forme libre ou combinée dans un mélange gazeux par réactions chimiques avec l'uranium 166 (1989) 331
Chavane de Dalmassy, B., see Buijs 166 (1989) 199
Coltman, Jr., R.R., C.E. Klabunde, H.R. Kerchner, S.A. Richardson and L.R. Greenwood, The low-temperaure neutron irradiation facility at Oak Ridge National Laboratory 166 (1989) 379
Coquerelle, M., see Blank 166 (1989) 95
Coquerelle, M., see Matzke 166 (1989) 165

Dabos-Seignon, S., see Benedict 166 (1989) 48
Delobelle, P., Etude expérimentale de l'effet de rochet de traction–torsion d'un acier inoxydable 17-12 Mo-SPH, de 20 à 650°C 166 (1989) 364
Dufour, C., see Benedict 166 (1989) 48

Einziger, R.E., see Thomas 166 (1989) 243

Fisher, S.B., see Ward 166 (1989) 227
Fourcaudot, S., see Magill 166 (1989) 208
Fournier, J.M., see Rossat-Mignod 166 (1989) 56
Fournier, J.M., see Bogé 166 (1989) 77

Gallego-Juarez, J.A., see Magill 166 (1989) 208
Gilot, B., see Caron-Charles 166 (1989) 331
Gittus, J.H., J.R. Matthews and P.E. Potter, Safety aspects of fuel behaviour during faults and accidents in pressurised water reactors and liquid sodium cooled fast breeder reactors 166 (1989) 132
Glatz, J.-P., see Bokelund 166 (1989) 181
Greenwood, L.R., see Coltman, Jr. 166 (1989) 379

Harding, J.H. and D.G. Martin, A recommendation for the thermal conductivity of UO_2 166 (1989) 223
Heathman, S., see Benedict 166 (1989) 48
Hochrainer, D., see Seehars 166 (1989) 214
Hofmann, P., M. Markiewicz and J. Spino, Chemical interactions between Al_2O_3, which is used in burnable poison rods, and Zircaloy-4 up to 1500°C 166 (1989) 287

Imoto, S., Computed energy levels of actinide configurations 166 (1989) 68

Kalvius, G.M., Mössbauer spectroscopy on actinides 166 (1989) 5
Kayano, H., see Abe 166 (1989) 265
Kerchner, H.R., see Coltman, Jr. 166 (1989) 379
Khatamian, D. and F.D. Manchester, An ion beam study of hydrogen diffusion in oxides of Zr and Zr–Nb (2.5 wt%). I. Diffusion parameters for dense oxide 166 (1989) 300
Klabunde, C.E., see Coltman, Jr. 166 (1989) 379

Larroque, J., see Beauvy 166 (1989) 83

Lassmann, K., C. Ronchi and G.J. Small, The development of fuel performance models at the European Institute for Transuranium Elements 166 (1989) 112
Lassmann, K., see Matzke 166 (1989) 165
Lemaignan, C., see Schuster 166 (1989) 348
Lemaignan, C., see Schuster 166 (1989) 357
Luo, H., see Benedict 166 (1989) 48

Magill, J., S. Pickering, S. Fourcaudot, J.A. Gallego-Juarez, E. Riera-Franco de Sarabia and G. Rodriguez-Corral, Acoustic aerosol scavenging 166 (1989) 208
Manahan, M.P., Determination of fracture behavior of ferritic steels using miniaturized specimens 166 (1989) 321
Manchester, F.D., see Khatamian 166 (1989) 300
Markiewicz, M., see Hofmann 166 (1989) 287
Martin, D.G., see Harding 166 (1989) 223
Matthews, J.R., see Gittus 166 (1989) 132
Matzke, Hj., see Blank 166 (1989) 95
Matzke, Hj. and H. Blank, Fuel research and basic aspects of fuel in-pile performance 166 (1989) 120
Matzke, Hj., H. Blank, M. Coquerelle, K. Lassmann, I.L.F. Ray, C. Ronchi and C.T. Walker, Oxide fuel transients 166 (1989) 165
Mouze, G., see Ythier 166 (1989) 74

Naegele, J.R., Surface analysis of actinide materials 166 (1989) 59
Nakajima, H., see Shindo 166 (1989) 278
Narui, M., see Abe 166 (1989) 265
Noda, T., see Abe 166 (1989) 265

Olander, D.R., see Sherman 166 (1989) 307

Pickering, S., see Buijs 166 (1989) 199
Pickering, S., see Magill 166 (1989) 208
Pleska, E., see Rossat-Mignod 166 (1989) 56
Pleska, E., see Bogé 166 (1989) 77
Ploc, R.A., A scanning Auger microprobe analysis of an oxidized amorphous $Zr_2Fe_{0.6}Ni_{0.4}$ ribbon 166 (1989) 342
Potter, P.E., see Gittus 166 (1989) 132
Prodi, V., Characterisation of nuclear aerosols 166 (1989) 189

Quézel, S., see Rossat-Mignod 166 (1989) 56
Quézel, S., see Bogé 166 (1989) 77

Ray, I.L.F., see Blank 166 (1989) 95
Ray, I.L.F., see Matzke 166 (1989) 165
Rebizant, J., see Bogé 166 (1989) 77
Richardson, S.A., see Coltman, Jr. 166 (1989) 379
Richter, K., see Blank 166 (1989) 95
Riera-Franco de Sarabia, E., see Magill 166 (1989) 208
Rodriguez-Corral, G., see Magill 166 (1989) 208
Ronchi, C., see Lassmann 166 (1989) 112
Ronchi, C., see Matzke 166 (1989) 165

Rossat-Mignod, J., P. Burlet, J.M. Fournier, E. Pleska and S. Quézel, Magnetic and electronic properties of transuranium compounds 166 (1989) 56
Rossat-Mignod, J., see Bogé 166 (1989) 77

Sari, C., see Blank 166 (1989) 95
Schuster, I. and C. Lemaignan, Characterisation of Zircaloy corrosion fatigue phenomena in an iodine environment. Part 1: Crack growth 166 (1989) 348
Schuster, I. and C. Lemaignan, Characterisation of Zircaloy corrosion fatigue phenomena in an iodine environment. Part 2: Fatigue life 166 (1989) 357
Seaborg, G.T., Recent research on the heavy transuranium elements 166 (1989) 22
Seehars, D. and D. Hochrainer, Oxidation and pulverization of UO_2 and MOX pellets 166 (1989) 214
Sherman, D.F. and D.R. Olander, Hydrogen dissolution in and release from nonmetals. I. Uranium dioxide 166 (1989) 307
Shindo, M. and H. Nakajima, Carburization behaviour of high temperature alloys in carburizing environment 166 (1989) 278
Small, G.J., see Lassmann 166 (1989) 112
Spino, J., see Hofmann 166 (1989) 287
Spirlet, J.-C., New techniques in the preparation chemistry of transuranium materials 166 (1989) 41
Spirlet, J.C., see Bogé 166 (1989) 77
Stoll, W., The economy of the nuclear fuel cycle 166 (1989) 160

Thomas, L.E., R.E. Einziger and R.E. Woodley, Microstructural examination of oxidized spent PWR fuel by transmission electron microscopy 166 (1989) 243
Tsai, C.-H., see Yang 166 (1989) 252

Van Geel, J., Opening Address 166 (1989) 1
Van Geel, J., Closing Address 166 (1989) 219
Vogt, O., Properties of pure single crystals of actinide compounds 166 (1989) 36

Walker, C.T., see Matzke 166 (1989) 165
Ward, A.E. and S.B. Fisher, Dislocation loop growth in pure iron under electron irradiation 166 (1989) 227
Wolfer, W.G., see Adams 166 (1989) 235
Woodley, R.E., see Thomas 166 (1989) 243
Wulff, M., see Bogé 166 (1989) 77

Yang, T.-T. and C.-H. Tsai, On the susceptibility to stress corrosion cracking of Zircaloy in an iodine containing environment 166 (1989) 252
Ythier, C. and G. Mouze, New points of view on the nuclear properties of the fissile actinides 166 (1989) 74

Journal of Nuclear Materials 166 (1989) 393–397
North-Holland, Amsterdam

SUBJECT INDEX

Aerosols
Characterisation of nuclear aerosols, V. Prodi 166 (1989) 189
The dispersion of radioactive aerosols in fires, K. Buijs, B. Chavane de Dalmassy and S. Pickering 166 (1989) 199
Acoustic aerosol scavenging, J. Magill, S. Pickering, S. Fourcaudot, J.A. Gallego-Juarez, E. Riera-Franco de Sarabia and G. Rodriguez-Corral 166 (1989) 208

Alloys *("Various" i.e. not listed elsewhere by name)*
Transuranium materials under extreme pressures, U. Benedict, S. Dabos-Seignon, C. Dufour, H. Luo and S. Heathman 166 (1989) 48
Surface analysis of actinide materials, J.R. Naegele 166 (1989) 59

Aluminium, Aluminium Alloys and Compounds
Chemical interactions between Al_2O_3, which is used in burnable poison rods, and Zircaloy-4 up to 1500°C, P. Hofmann, M. Markiewicz and J. Spino 166 (1989) 287

Analytical Techniques
Surface analysis of actinide materials, J.R. Naegele 166 (1989) 59
Characterisation of nuclear aerosols, V. Prodi 166 (1989) 189

Ceramics *("Various" i.e. not listed elsewhere by name)*
Dense fuels in Europe, H. Blank, K. Richter, M. Coquerelle, Hj. Matzke, M. Campana, C. Sari and I.L.F. Ray 166 (1989) 95
Advanced fuel fabrication, H. Bernard 166 (1989) 105
Recovery and chemical purification of actinides at JRC, Karlsruhe, H. Bokelund, C. Apostolidis and J.-P. Glatz 166 (1989) 181
Oxidation and pulverization of UO_2 and MOX pellets, D. Seehars and D. Hochrainer 166 (1989) 214

Cladding Materials
On the susceptibility to stress corrosion cracking of Zircaloy in an iodine containing environment, T.-T. Yang and C.-H. Tsai 166 (1989) 252

Compatibility and Corrosion
On the susceptibility to stress corrosion cracking of Zircaloy in an iodine containing environment, T.-T. Yang and C.-H. Tsai 166 (1989) 252
Carburization behaviour of high temperature alloys in carburizing environment, M. Shindo and H. Nakajima 166 (1989) 278
Chemical interactions between Al_2O_3, which is used in burnable poison rods, and Zircaloy-4 up to 1500°C, P. Hofmann, M. Markiewicz and J. Spino 166 (1989) 287
A scanning Auger microprobe analysis of an oxidized amorphous $Zr_2Fe_{0.6}Ni_{0.4}$ ribbon, R.A. Ploc 166 (1989) 342
Characterisation of Zircaloy corrosion fatigue phenomena in an iodine environment. Part 1: Crack growth, I. Schuster and C. Lemaignan 166 (1989) 348
Characterisation of Zircaloy corrosion fatigue phenomena in an iodine environment. Part 2: Fatigue life, I. Schuster and C. Lemaignan 166 (1989) 357

Computer Calculations, including Modelling
Computed energy levels of actinide configurations, S. Imoto 166 (1989) 68
New points of view on the nuclear properties of the fissile actinides, C. Ythier and G. Mouze 166 (1989) 74
The development of fuel performance models at the European Institute for Transuranium Elements, K. Lassmann, C. Ronchi and G.J. Small 166 (1989) 112
Oxide fuel transients, Hj. Matzke, H. Blank, M. Coquerelle, K. Lassmann, I.L.F. Ray, C. Ronchi and C.T. Walker 166 (1989) 165
Characterisation of nuclear aerosols, V. Prodi 166 (1989) 189

Crystal Growth
Properties of pure single crystals of actinide compounds, O. Vogt 166 (1989) 36
New techniques in the preparation chemistry of transuranium materials, J.-C. Spirlet 166 (1989) 41
Synthesis, characterization and properties of actinide compounds, M. Beauvy and J. Larroque 166 (1989) 83

Crystallographic Properties
Mössbauer spectroscopy on actinides, G.M. Kalvius 166 (1989) 5
Recent research on the heavy transuranium elements, G.T. Seaborg 166 (1989) 22
Transuranium materials under extreme pressures, U. Benedict, S. Dabos-Seignon, C. Dufour, H. Luo and S. Heathman 166 (1989) 48
Synthesis, characterization and properties of actinide compounds, M. Beauvy and J. Larroque 166 (1989) 83

Diffusion *(incl. Thermodiffusion)*
Fuel research and basic aspects of fuel in-pile performance, Hj. Matzke and H. Blank 166 (1989) 120
Oxide fuel transients, Hj. Matzke, H. Blank, M. Coquerelle, K. Lassmann, I.L.F. Ray, C. Ronchi and C.T. Walker 166 (1989) 165

Electron Microscopy and Electron Probe Microanalysis
Oxide fuel transients, Hj. Matzke, H. Blank, M. Coquerelle, K. Lassmann, I.L.F. Ray, C. Ronchi and C.T. Walker 166 (1989) 165
Microstructural examination of oxidized spent PWR fuel by transmission electron microscopy, L.E. Thomas, R.E. Einziger and R.E. Woodley 166 (1989) 243

Experimental Techniques
Mössbauer spectroscopy on actinides, G.M. Kalvius 166 (1989) 5
Surface analysis of actinide materials, J.R. Naegele 166 (1989) 59
Advanced fuel fabrication, H. Bernard 166 (1989) 105
Recovery and chemical purification of actinides at JRC, Karlsruhe, H. Bokelund, C. Apostolidis and J.-P. Glatz 166 (1989) 181
Characterisation of nuclear aerosols, V. Prodi 166 (1989) 189
The dispersion of radioactive aerosols in fires, K. Buijs, B. Chavane de Dalmassy and S. Pickering 166 (1989) 199
Acoustic aerosol scavenging, J. Magill, S. Pickering, S. Fourcaudot, J.A. Gallego-Juarez, E. Riera-Franco de Sarabia and G. Rodriguez-Corral 166 (1989) 208
Oxidation and pulverization of UO_2 and MOX pellets, D. Seehars and D. Hochrainer 166 (1989) 214
Hydrogen dissolution in and release from nonmetals. I. Uranium dioxide, D.F. Sherman and D.R. Olander 166 (1989) 307
Determination of fracture behavior of ferritic steels using miniaturized specimens, M.P. Manahan 166 (1989) 321
The low-temperaure neutron irradiation facility at Oak Ridge National Laboratory, R.R. Coltman, Jr., C.E. Klabunde, H.R. Kerchner, S.A. Richardson and L.R. Greenwood 166 (1989) 379

Fatigue and Fracture
Determination of fracture behavior of ferritic steels using miniaturized specimens, M.P. Manahan 166 (1989) 321
Characterisation of Zircaloy corrosion fatigue phenomena in an iodine environment. Part 1: Crack growth, I. Schuster and C. Lemaignan 166 (1989) 348
Characterisation of Zircaloy corrosion fatigue phenomena in an iodine environment. Part 2: Fatigue life, I. Schuster and C. Lemaignan 166 (1989) 357

Fission Products
Safety aspects of fuel behaviour during faults and accidents in pressurised water reactors and liquid sodium cooled fast breeder reactors, J.H. Gittus, J.R. Matthews and P.E. Potter 166 (1989) 132

Fuel Cycles
The economy of the nuclear fuel cycle, W. Stoll 166 (1989) 160

Fuel Reprocessing
The economy of the nuclear fuel cycle, W. Stoll 166 (1989) 160
Recovery and chemical purification of actinides at JRC, Karlsruhe, H. Bokelund, C. Apostolidis and J.-P. Glatz 166 (1989) 181

Fuels and Fuel Elements: Fast Reactors
Dense fuels in Europe, H. Blank, K. Richter, M. Coquerelle, Hj. Matzke, M. Campana, C. Sari and I.L.F. Ray 166 (1989) 95
Advanced fuel fabrication, H. Bernard 166 (1989) 105
The development of fuel performance models at the European Institute for Transuranium Elements, K. Lassmann, C. Ronchi and G.J. Small 166 (1989) 112
Fuel research and basic aspects of fuel in-pile performance, Hj. Matzke and H. Blank 166 (1989) 120
Safety aspects of fuel behaviour during faults and accidents in pressurised water reactors and liquid sodium cooled fast breeder reactors, J.H. Gittus, J.R. Matthews and P.E. Potter 166 (1989) 132
Oxide fuel transients, Hj. Matzke, H. Blank, M. Coquerelle, K. Lassmann, I.L.F. Ray, C. Ronchi and C.T. Walker 166 (1989) 165

Fuels and Fuel Elements: High-Temperature Reactors
Carburization behaviour of high temperature alloys in carburizing environment, M. Shindo and H. Nakajima 166 (1989) 278

Fuel and Fuel Elements: Thermal Reactors
Microstructural examination of oxidized spent PWR fuel by transmission electron microscopy, L.E. Thomas, R.E. Einziger and R.E. Woodley 166 (1989) 243
Chemical interactions between Al_2O_3, which is used in burnable poison rods, and Zircaloy-4 up to 1500°C, P. Hofmann, M. Markiewicz and J. Spino 166 (1989) 287

Gases *(excl. Tritium)* **in Metals, Alloys and Ceramics**
Formation energies of helium–void complexes in nickel, J.B. Adams and W.G. Wolfer 166 (1989) 235
Microstructural examination of oxidized spent PWR fuel by transmission electron microscopy, L.E. Thomas, R.E. Einziger and R.E. Woodley 166 (1989) 243
An ion beam study of hydrogen diffusion in oxides of Zr and Zr–Nb (2.5 wt%). I. Diffusion parameters for dense oxide, D. Khatamian and F.D. Manchester 166 (1989) 300

Glasses and Amorphous Materials
A scanning Auger microprobe analysis of an oxidized amorphous $Zr_2Fe_{0.6}Ni_{0.4}$ ribbon, R.A. Ploc 166 (1989) 342

Hydrogen and Hydrides
An ion beam study of hydrogen diffusion in oxides of Zr and Zr–Nb (2.5 wt%). I. Diffusion parameters for dense oxide, D. Khatamian and F.D. Manchester 166 (1989) 300
Hydrogen dissolution in and release from nonmetals. I. Uranium dioxide, D.F. Sherman and D.R. Olander 166 (1989) 307
Purification de l'hydrogène sous forme libre ou combinée dans un mélange gazeux par réactions chimiques avec l'uranium, M. Caron-Charles and B. Gilot 166 (1989) 331

History and Nuclear Materials
Recent research on the heavy transuranium elements, G.T. Seaborg 166 (1989) 22
Dense fuels in Europe, H. Blank, K. Richter, M. Coquerelle, Hj. Matzke, M. Campana, C. Sari and I.L.F. Ray 166 (1989) 95

Irradiation Effects *(excl. Swelling and Voids)*
Dense fuels in Europe, H. Blank, K. Richter, M. Coquerelle, Hj. Matzke, M. Campana, C. Sari and I.L.F. Ray 166 (1989) 95
The development of fuel performance models at the European Institute for Transuranium Elements, K. Lassmann, C. Ronchi and G.J. Small 166 (1989) 112
Fuel research and basic aspects of fuel in-pile performance, Hj. Matzke and H. Blank 166 (1989) 120
Safety aspects of fuel behaviour during faults and accidents in pressurised water reactors and liquid sodium cooled fast breeder reactors, J.H. Gittus, J.R. Matthews and P.E. Potter 166 (1989) 132
Dislocation loop growth in pure iron under electron irradiation, A.E. Ward and S.B. Fisher 166 (1989) 227
Irradiation hardening and ductility loss of a low-activation 9Cr–1V ferritic steel at low temperatures, F. Abe, T. Noda, H. Araki, M. Narui and H. Kayano 166 (1989) 265
An ion beam study of hydrogen diffusion in oxides of Zr and Zr–Nb (2.5 wt%). I. Diffusion parameters for dense oxide, D. Khatamian and F.D. Manchester 166 (1989) 300
The low-temperaure neutron irradiation facility at Oak Ridge National Laboratory, R.R. Coltman, Jr., C.E. Klabunde, H.R. Kerchner, S.A. Richardson and L.R. Greenwood 166 (1989) 379

Mechanical Properties
Irradiation hardening and ductility loss of a low-activation 9Cr–1V ferritic steel at low temperatures, F. Abe, T. Noda, H. Araki, M. Narui and H. Kayano 166 (1989) 265
Etude expérimentale de l'effet de rochet de traction–torsion d'un acier inoxydable 17-12 Mo-SPH, de 20 à 650°C, P. Delobelle 166 (1989) 364

Microstructure *(incl. Textures)*
Advanced fuel fabrication, H. Bernard 166 (1989) 105
Fuel research and basic aspects of fuel in-pile performance, Hj. Matzke and H. Blank 166 (1989) 120
Dislocation loop growth in pure iron under electron irradiation, A.E. Ward and S.B. Fisher 166 (1989) 227

Nuclear Fuels and Elements *(general)*
The development of fuel performance models at the European Institute for Transuranium Elements, K. Lassmann, C. Ronchi and G.J. Small 166 (1989) 112
Fuel research and basic aspects of fuel in-pile performance, Hj. Matzke and H. Blank 166 (1989) 120
The economy of the nuclear fuel cycle, W. Stoll 166 (1989) 160

Phase Transformations
Mössbauer spectroscopy on actinides, G.M. Kalvius 166 (1989) 5
Transuranium materials under extreme pressures, U. Benedict, S. Dabos-Seignon, C. Dufour, H. Luo and S. Heathman 166 (1989) 48
Magnetic and electronic properties of transuranium compounds, J. Rossat-Mignod, P. Burlet, J.M. Fournier, E. Pleska and S. Quézel 166 (1989) 56

Physical Properties
Mössbauer spectroscopy on actinides, G.M. Kalvius 166 (1989) 5
Recent research on the heavy transuranium elements, G.T. Seaborg 166 (1989) 22
Properties of pure single crystals of actinide compounds, O. Vogt 166 (1989) 36
Magnetic and electronic properties of transuranium compounds, J. Rossat-Mignod, P. Burlet, J.M. Fournier, E. Pleska and S. Quézel 166 (1989) 56
New points of view on the nuclear properties of the fissile actinides, C. Ythier and G. Mouze 166 (1989) 74
Magnetic and electrical properties of $NpRu_2Si_2$, M. Bogé, D. Bonnisseau, P. Burlet, J.M. Fournier, E. Pleska, S. Quézel, J. Rebizant, J. Rossat-Mignod, J.C. Spirlet and M. Wulff 166 (1989) 77
A recommendation for the thermal conductivity of UO_2, J.H. Harding and D.G. Martin 166 (1989) 223

Plutonium, Plutonium Alloys and Compounds
Properties of pure single crystals of actinide compounds, O. Vogt 166 (1989) 36
New techniques in the preparation chemistry of transuranium materials, J.-C. Spirlet 166 (1989) 41
Transuranium materials under extreme pressures, U. Benedict, S. Dabos-Seignon, C. Dufour, H. Luo and S. Heathman 166 (1989) 48
Magnetic and electronic properties of transuranium compounds, J. Rossat-Mignod, P. Burlet, J.M. Fournier, E. Pleska and S. Quézel 166 (1989) 56
Surface analysis of actinide materials, J.R. Naegele 166 (1989) 59
Computed energy levels of actinide configurations, S. Imoto 166 (1989) 68
New points of view on the nuclear properties of the fissile actinides, C. Ythier and G. Mouze 166 (1989) 74
Synthesis, characterization and properties of actinide compounds, M. Beauvy and J. Larroque 166 (1989) 83
The dispersion of radioactive aerosols in fires, K. Buijs, B. Chavane de Dalmassy and S. Pickering 166 (1989) 199

Powder Processes and Products
Advanced fuel fabrication, H. Bernard 166 (1989) 105
Oxidation and pulverization of UO_2 and MOX pellets, D. Seehars and D. Hochrainer 166 (1989) 214

Refractory Metals and Alloys *(excl. Zr)*
Formation energies of helium–void complexes in nickel, J.B. Adams and W.G. Wolfer 166 (1989) 235

Safety – Nuclear Reactors
The development of fuel performance models at the European Institute for Transuranium Elements, K. Lassmann, C. Ronchi and G.J. Small 166 (1989) 112
Safety aspects of fuel behaviour during faults and accidents in pressurised water reactors and liquid sodium cooled fast breeder reactors, J.H. Gittus, J.R. Matthews and P.E. Potter 166 (1989) 132
Oxide fuel transients, Hj. Matzke, H. Blank, M. Coquerelle, K. Lassmann, I.L.F. Ray, C. Ronchi and C.T. Walker 166 (1989) 165

Steels
Irradiation hardening and ductility loss of a low-activation 9Cr–1V ferritic steel at low temperatures, F. Abe, T. Noda, H. Araki, M. Narui and H. Kayano 166 (1989) 265
Determination of fracture behavior of ferritic steels using miniaturized specimens, M.P. Manahan 166 (1989) 321
Etude expérimentale de l'effet de rochet de traction–torsion d'un acier inoxydable 17-12 Mo-SPH, de 20 à 650°C, P. Delobelle 166 (1989) 364

Thermodynamic Properties
Safety aspects of fuel behaviour during faults and accidents in pressurised water reactors and liquid sodium cooled fast breeder reactors, J.H. Gittus, J.R. Matthews and P.E. Potter 166 (1989) 132

Thermophysical Properties
Synthesis, characterization and properties of actinide compounds, M. Beauvy and J. Larroque 166 (1989) 83

Thorium, Thorium Alloys and Compounds
Computed energy levels of actinide configurations, S. Imoto 166 (1989) 68

Uranium and Uranium Alloys
Computed energy levels of actinide configurations, S. Imoto 166 (1989) 68
Purification de l'hydrogène sous forme libre ou combinée dans un mélange gazeux par réactions chimiques avec l'uranium, M. Caron-Charles and B. Gilot 166 (1989) 331

Uranium Ceramics
Dense fuels in Europe, H. Blank, K. Richter, M. Coquerelle, Hj. Matzke, M. Campana, C. Sari and I.L.F. Ray 166 (1989) 95
Oxidation and pulverization of UO_2 and MOX pellets, D. Seehars and D. Hochrainer 166 (1989) 214
A recommendation for the thermal conductivity of UO_2, J.H. Harding and D.G. Martin 166 (1989) 223
Microstructural examination of oxidized spent PWR fuel by transmission electron microscopy, L.E. Thomas, R.E. Einziger and R.E. Woodley 166 (1989) 243
Hydrogen dissolution in and release from nonmetals. I. Uranium dioxide, D.F. Sherman and D.R. Olander 166 (1989) 307

Void Formation
Formation energies of helium–void complexes in nickel, J.B. Adams and W.G. Wolfer 166 (1989) 235

Wastes *(Radioactive)*
The economy of the nuclear fuel cycle, W. Stoll 166 (1989) 160

Zirconium, Zirconium Alloys and Compounds
On the susceptibility to stress corrosion cracking of Zircaloy in an iodine containing environment, T.-T. Yang and C.-H. Tsai 166 (1989) 252
Chemical interactions between Al_2O_3, which is used in burnable poison rods, and Zircaloy-4 up to 1500°C, P. Hofmann, M. Markiewicz and J. Spino 166 (1989) 287
An ion beam study of hydrogen diffusion in oxides of Zr and Zr–Nb (2.5 wt%). I. Diffusion parameters for dense oxide, D. Khatamian and F.D. Manchester 166 (1989) 300
A scanning Auger microprobe analysis of an oxidized amorphous $Zr_2Fe_{0.6}Ni_{0.4}$ ribbon, R.A. Ploc 166 (1989) 342
Characterisation of Zircaloy corrosion fatigue phenomena in an iodine environment. Part 1: Crack growth, I. Schuster and C. Lemaignan 166 (1989) 348
Characterisation of Zircaloy corrosion fatigue phenomena in an iodine environment. Part 2: Fatigue life, I. Schuster and C. Lemaignan 166 (1989) 357